

## SPLIT-TYPE AIR CONDITIONERS



**Mr. SLIM**

R22

CEILING-CASSETTE  
CEILING-SUSPENDED  
CEILING-CONCEALED

WALL-MOUNTED  
FLOOR-STANDING

**Mitsubishi**  
**Electric**  
**Quality**



3hp

Ceiling-cassette



**PL**

PL-3BAK



Ceiling-suspended

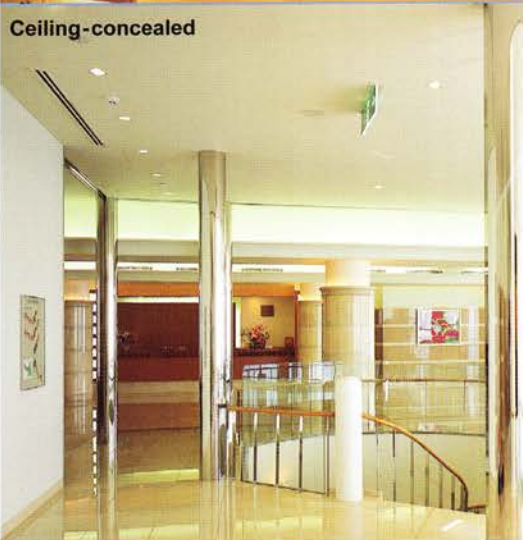


**PC**

PC-3KAK



Ceiling-concealed



**PE**

PE-3EAK2



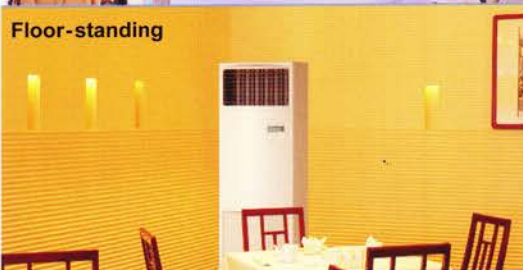
**PED**

Wall-mounted



**PK**

Floor-standing



**PS**

**OUTDOOR  
UNITS**

PU-3VAKD



PU-3VAKR2

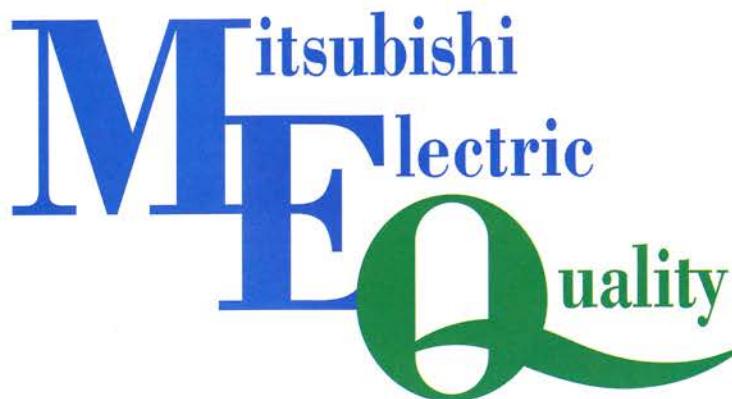


\* PS-4GAKD must be connected to PU-4YAKD2.

4hp	5hp	6hp	Remote controller	Contents
<b>PL-4BAK</b> 	<b>PL-5BAK</b> 	<b>PL-6BAK</b> 		<b>P.7</b>
<b>PC-4KAK</b> 	<b>PC-5KAK</b> 	<b>PC-6KAK</b> 	 Optional	<b>P.10</b>
<b>PE-4EAK</b> 	<b>PE-5EAK2</b> 	<b>PE-6EAK2</b> 	 Optional	<b>P.11</b>
	<b>PED-5AAK</b> 		 Optional	<b>P.11</b>
<b>PK-4FAKLD</b> 			 Optional	<b>P.12</b>
<b>PS-4GAKD*</b> 	<b>PS-5GAKD</b> 	<b>PS-6GAKD</b> 	 Built-in controller	<b>P.13</b>
<b>PU-4VAKR/YAKD2</b> 	<b>PU-5YAKD</b> 	<b>PU-6YAKD</b> 		



## The MEQ Difference



**Higher performance, lower power consumption  
and longer life...**

Simply meeting industry standards, however stringent, is not enough. Our aim is to exceed them. When it comes to comfort, efficiency and durability, Mitsubishi Electric offers you a distinctive advantage. We call it MEQ — Mitsubishi Electric Quality. It results in our benchmark that leading-edge products such as air conditioners that consume minimal power, protect your investment through a long service life and offer superior reliability, built to take the punishment of extreme weather conditions year in and year out.

## *Mitsubishi Electric Offers Three Important Advantages*

### Comfort

#### **Clean air, optimum temperature distribution and silent operation...**

MEQ has led to the development of state-of-the-art air purification and deodorization filters that remove unwanted odors and impurities in the air. Original airflow technologies and specially designed components provide even temperature distribution — even in remote regions of a room. At Mitsubishi Electric, comfort doesn't simply mean cool or warm, it means clean and quiet too.

### Efficiency

#### **Optimum cost performance and energy savings...**

MEQ results in air conditioners that are rated among the best in the industry in terms of quality and energy efficiency. We strive for a perfect balance of performance, reliability, low power consumption and long service life. This is complemented by continuously introducing new technologies and components that further reduce energy requirements and negative environmental impact.

### Durability

#### **Rugged construction, rigorous testing, long-lasting operation...**

MEQ is behind a mindset that goes to extremes to ensure higher quality products that protect the initial investment over years of reliable service. We subject our indoor and outdoor units to rigorous durability testing, including harsher temperature extremes than likely found anywhere in the world.



# The First Choice for Any and All Applications

Whatever your requirements may be, Mitsubishi Electric offers advanced split-type air conditioners perfect for any interior, any need. Significantly decreased noise levels enhance comfort, while a long list of convenient features allow for easy installation and far less maintenance. A variety of system control configurations plus twin-multi operation — where two indoor units can be connected to a single outdoor unit — make our units the first choice for the diverse applications of today.



## Advanced Remote Controller

Renovating air conditioning communication without advanced MA Remote Controller

### Dot Liquid-crystal Display Adopted

The adoption of dot liquid-crystal display (LCD) technology and a large display screen for the control panel optimizes visibility. Operation and control status are easily read at a glance.

Display example [Operation mode]  
Dot liquid crystal display section



### Multi-language Display

Multi-language

Control panel operation in eight different languages.

Choose the desired language, among the following languages.

1st  
in the  
Industry!

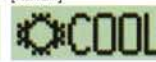
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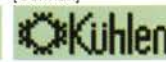
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[Italian]



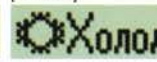
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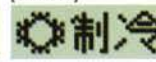
[French]



[Russian]



[Chinese]



[Japanese]



### Operation Control Function

Limited Temperature Range Settings

Air conditioner operation is restricted to within a specified operating range.

Auto-off Timer

Automatically turns off air conditioner.

Operation Lock

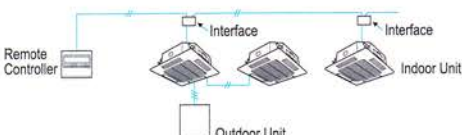
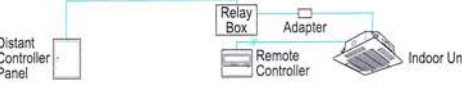
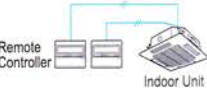
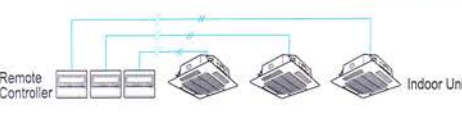


Prevents operation settings from being changed.

### Weekly Timer

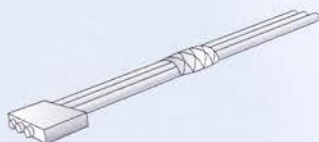
Temperature settings and On/Off control can be managed over a period of one week using the Weekly Timer. Up to eight setting patterns per calendar day are possible.



## Mr. SLIM A/K Control System Configuration

Control function	System configuration	Features	Necessary parts & equipment
1. Group control with 1 remote controller		<ul style="list-style-type: none"> <li>■ Sequential start adaptable</li> <li>■ Same mode operation</li> <li>■ Maximum no. of units connectable per group: 16-refrigerant (Outdoor 16 sets)</li> </ul>	<ul style="list-style-type: none"> <li>■ MAC-397IF-E (one for each outdoor unit)</li> </ul>
2. Combined remote/local control		<ul style="list-style-type: none"> <li>■ Simultaneous ON/OFF remote</li> <li>■ Operation can be switched between the distant controller panel and handheld controller</li> </ul>	<ul style="list-style-type: none"> <li>■ Timer adapter PAC-SE55RA-E (connect to CN32 on indoor circuit board)</li> <li>■ Relay box (on-site)</li> </ul>
3. Operation with 2 remote controllers		<ul style="list-style-type: none"> <li>■ 2 remote controllers can be connected to one group</li> <li>■ Control with the latest command</li> </ul>	<ul style="list-style-type: none"> <li>■ Additional remote controller (option)</li> </ul>
4. Individual control from distant room		<ul style="list-style-type: none"> <li>■ Extension of remote controller cord (MAX. 500m)</li> </ul>	<ul style="list-style-type: none"> <li>■ Remote controller cord (on-site)</li> </ul>
5. Timer operation		<ul style="list-style-type: none"> <li>■ Weekly timer operation possible as standard (7 days-8 patterns)</li> </ul>	—
		<ul style="list-style-type: none"> <li>■ Optional adapter allows operation with timer sold on the market</li> </ul>	<ul style="list-style-type: none"> <li>■ Timer adapter PAC-SE55RA-E (connect to CN32 on indoor circuit board)</li> </ul>
6. Operation by external signal		<ul style="list-style-type: none"> <li>■ Receives static signal</li> </ul>	<ul style="list-style-type: none"> <li>■ Timer adapter PAC-SE55RA-E (connect to CN32 on indoor circuit board)</li> </ul>
		<ul style="list-style-type: none"> <li>■ Receives pulse signal</li> </ul>	<ul style="list-style-type: none"> <li>■ Multiple remote controller adapter PAC-725AD (connect to CN51 on indoor circuit board)</li> </ul>
7. Power failure automatic recovery		<ul style="list-style-type: none"> <li>■ Returns to the state before power failure as standard</li> </ul>	<ul style="list-style-type: none"> <li>■ Function setting via remote controller</li> </ul>
8. Connection of remote display		<ul style="list-style-type: none"> <li>■ Connectable to display panel in the field adapter</li> </ul>	<ul style="list-style-type: none"> <li>■ Multiple remote controller adapter PAC-725AD (connect to CN51 on indoor circuit board)</li> <li>■ OMRON LY-1 relay (12VDC)</li> </ul>

**PAC-SE55RA-E**  
Timer Adapter



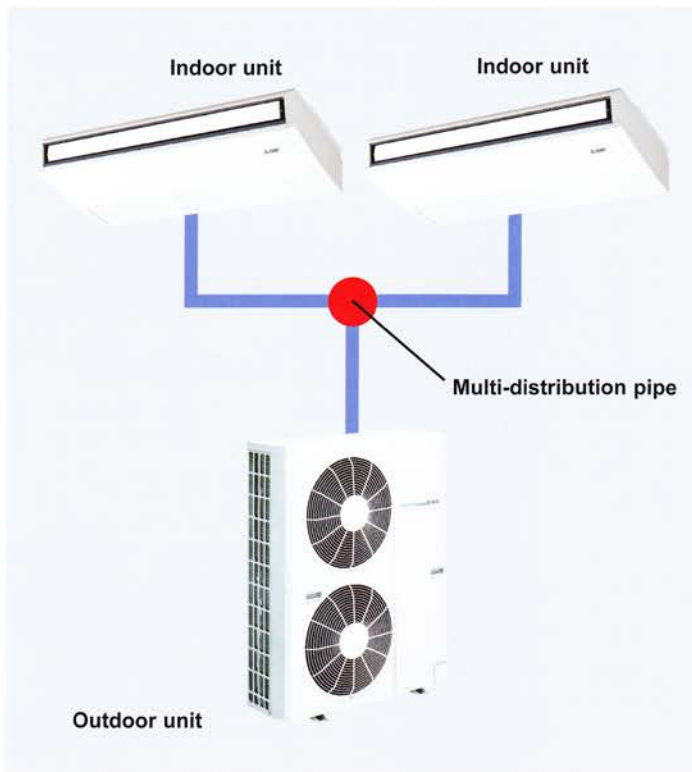
**MAC-397IF-E**  
MA & Control Terminal Interface



**PAC-725AD**  
Multiple Remote Controller Adapter  
(10 units of PAC-SA88HA-E)



## Twin Multi Operation



Two indoor units can be connected to a single outdoor unit and both units can be operated simultaneously from a single remote controller using the optional multi-distribution pipe (only indoor units of the same capacity can be connected).

### Outdoor Unit and Twin-Multi Combinations

Outdoor unit	Twin-multi
PU-6YAKD	3 + 3
Multi-distribution pipe	SDD-50S-E (all models)

#### Note

- The capacity of both indoor units must be identical.
- Different types of indoor units with identical capacities can be connected.
- The height difference between both indoor units must be 1 meter or less.
- When two units are connected, the main unit can be used to control the operation of both units.

## Mr. SLIM Convenient Remote Controller

### Advanced MA remote controller\*

#### Wired remote controller



- DOT LIQUID CRYSTAL display
- MULTI-LANGUAGE display
- OPERATION CONTROL function
- WEEKLY TIMER

### Stylish wireless remote controller with all the latest programming features

#### Wireless remote controller



#### FAN SPEED SELECT button

Used to change fan speed.

#### Fan speed indicator

Displays the fan speed setting (HIGH or LOW).

#### VANE CONTROL button

Used to change airflow direction.

#### • HOUR and MINUTE buttons

Used to set the time and timer settings.

#### • MODE SELECTION button

Used to select operating modes — Cool, Dry, and Fan.

#### • TIMER button/ RESET button

#### • TIMER CONTROL buttons

**STOP (OFF timer):** When this function is activated, the air conditioner will automatically stop at the preset time.

**START (ON timer):** When this function is activated, the air conditioner will automatically start at the preset time.

\*Please refer to page 4.



# PL-BAK SERIES

With wired controller  
With wireless controller  
With elevation grille\*

PL-3/4/5/6BAKMD  
PL-3/4/5/6BAKLCM  
PL-3/4/5/6BAKJ

\*Requires optional wired controller (PAR-21MAA) or wireless controller (PAR-SL97A-E)



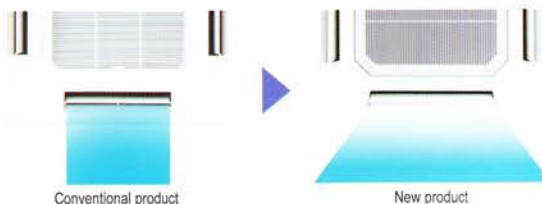
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## Wide airflow

A wide-shape vane capable of wide-angle air supply provides comfort even at the corners of a room, regardless of cooling operation. A reduction in air speed by 20% compared to conventional products eliminates uncomfortable draft sensations for better air conditioning.



## Draft-less air distribution

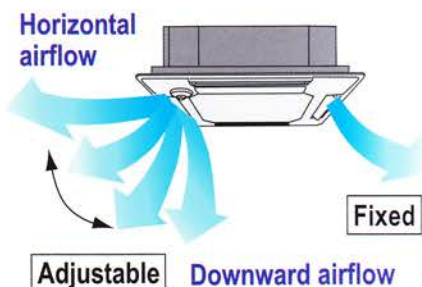
A horizontal blow mode\* can be set via remote controllers to deliver air-flow horizontally and avoid blowing cooled air directly onto occupants, thus preventing discomfort.

\*If airflow is disturbed, smudging may occur on the ceiling.



## Setting of airflow direction with individual vanes

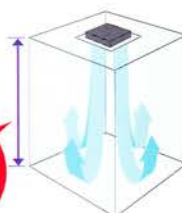
The 4-way ceiling cassette eliminates the troublesome task of repositioning the airflow outlets when room layout is altered or the season changes.



## Wide-flow air outlet

The high-power ceiling cassettes offer a wide-flow air outlet that enables effective air conditioning of rooms with atrium ceilings up to 4.5 meters in height. The demands of high-ceiling applications such as halls, showrooms or shopping malls can now be fully answered thanks to this powerful yet highly efficient airflow.

Ideal for high-ceiling applications as high as **4.5m**  
(PL-4/5/6)



## Specifications according to ceiling height

(Unit: m)

	PL-3			PL-4/5/6		
	Low ceiling*	Standard	High ceiling	Low ceiling*	Standard	High ceiling
4-way	2.5	2.7	3.5	2.7	3.2	4.5

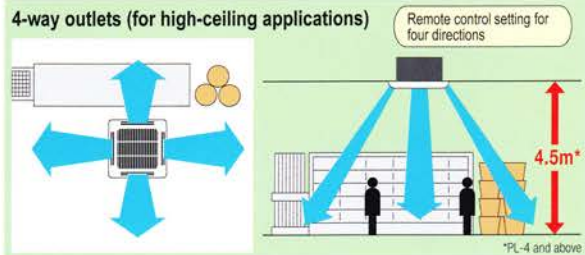
\*If required to set Low Ceiling Mode in a high humidity condition, please consult with dealers since there is some risk of condensation.



### For Shopping Malls

Wide airflow coverage right down to the floor even in expansive spaces like large factory-outlet centers or shopping malls with high ceilings.

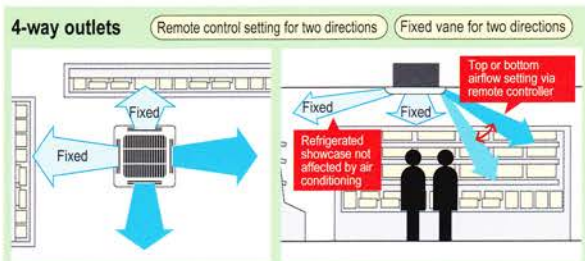
The unique airflow design of the high-power ceiling cassette models reduces pressure loss and provides wide cool-air coverage from high ceilings to the floor even in expansive spaces like shopping malls with ceilings over 4 meters in height.



### For Retail Outlets (e.g. Grocery Stores)

These units are ideal for maintaining constant temperatures in environments that have equipment such as refrigerated showcases.

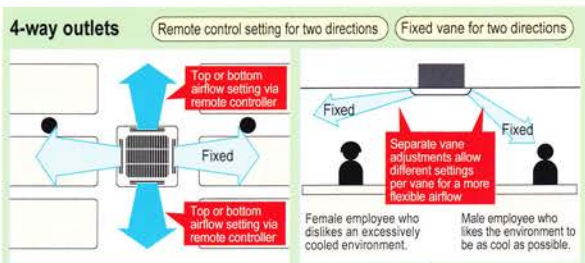
Individual vane angle adjustment enables precise airflow control to specific areas of the store to reduce unnecessary air conditioning of areas such as refrigerated showcases.



### For Offices

Flexible and pleasant airflow eliminates annoying drafts within the office environment.

In office environments annoying drafts can be bothersome, leading to discomfort and reduced productivity. Precise vane control helps to eliminate this problem.



### Automatic air-speed adjustment

An automatic air speed adjustment mode is provided in addition to the four air-speed stages, of High, Medium 1, Medium 2, and Low. Air speed can be changed freely in accordance with a difference between the set temperature and the room temperature. The automatic air speed adjustment mode offers quick cooling of a room in high mode, such as at the starting up of cooling operation. After the room temperature is stabilized, the low mode will be applied automatically to maintain comfort.

**Low → Medium 2 → Medium 1 → High → Automatic air-speed adjustment**

(When using the wireless remote controller, an extra setting is required.)

### Design uniformity improves installation flexibility

From the smallest 3HP unit to the largest 6HP model, ceiling cassettes offer a uniformly square 950 x 950mm width and depth design. Thanks to the uniformity of the panel size, planning for unit positioning in any room is enhanced and the installation of different capacity models within the same floor space is made possible.



### Automatic vane shutter

When the air conditioner is not operating, the vane shutter closes automatically to conceal the air outlet and create an aesthetically appealing flat surface.

\*This feature will not activate when the vane is set at the fixed position.

#### Vane shutter closes automatically



### Unit height of only 258mm (PL-3)

Ceiling cassette models boast a slim body height for smooth and aesthetic installation even in narrow plenum spaces.



### "Pure White" color harmonized with the interior décor

A "Pure White" color is adopted for the decoration panel and wired remote controller so as to blend with any interior décor.

### Industry-leading levels of noise

Reduced pressure loss through optimizing air passages, and use of a large-diameter Power Flow Fan realize an even higher level of silent operation.

**34dB/28dB**  
PL-3 at hi-notch/lo-notch

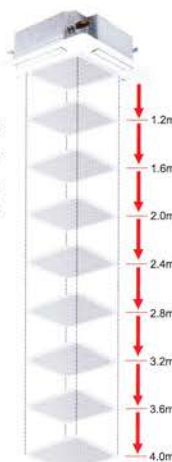
### Grille with automatic filter-lowering function (PL-BAKJ)

The grille can be operated by an exclusive wireless remote controller to facilitate maintenance work. It can be descended in 8 steps down to 4m in accordance with the ceiling height, thus enabling easy cleaning of the air filter. Cleaning of the filter is an important factor for saving energy.



Elevation grille remote controller (comes with the automatic elevation panel)

Automatic descending down to 4m





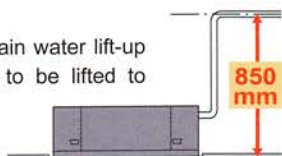
## Fresh-air intake

Indoor air quality is significantly enhanced by the direct intake of fresh air from outside. An optional multi-function casement (PAC-SH53TM-E) is also available for the intake of a larger volume of air.

## Fresh-air Intake

## Drain water lift-up mechanism

A high-performance drain pump on the drain water lift-up mechanism allows the drain water pipe to be lifted to 850mm from the ceiling surface.



## Handy corner-pocket design simplifies maintenance

By using the handy corner pockets equipped on the four corners of the grille, maintenance work such as drain pan cleaning and height adjustments can be accomplished without removing the grille.



## Bacteria- and mold-resistant specifications

Mitsubishi Electric filters are bacteria-resistant and the drain pans are designed to prevent the growth of mold for fresh and pleasant air conditioning at all times.

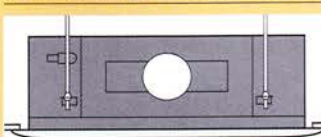
## Useful options for enhancing air quality

■ PAC-SH53TM-E: Multi-function casement (for outside-air intake)

## Compatible with both round and rectangular ducts

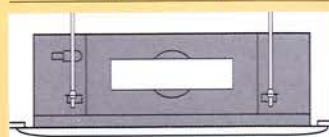
For easy connection to branch ducts, knock-out holes are designed to fit both round and rectangular ducts. Matching the shape of the duct fringe provides more flexibility during installation.

### Connecting to round ducts



150mm diameter cutout

### Connecting to rectangular ducts



350mm x 100mm cutout

## Features at a glance

Installation & Maintenance	Comfort	Others
• Chargeless system	• i-see Sensor	• System control
• Compact design	• Auto fan speed	• Twin-multi operation
• Drain water lift-up (850mm)	• Wide vane	• Auto vane shutter
• Handy corner pocket	• Smudge/draft-free*	• Auto restart
• Long-life filter (2500hrs)*	• High-ceiling application	• Fresh-air intake
• Self-diagnostic function	• Computerized dehumidifier	• Outdoor unit max. operating temp. of 46°C
• Filter indicator (For wired remote controller)	• Quiet operation	
• Flockless vanes	• Bacteria- and mold-resistant filter	
• Elevation grille		

\*May vary according to operating conditions.

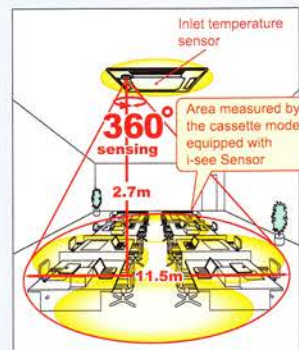
## i-see Sensor

(optional corner panel)

The "i-see Sensor" built into the optional corner panel eliminates uneven temperature distribution and reduces electricity consumption.



With optional i-see Sensor corner panel

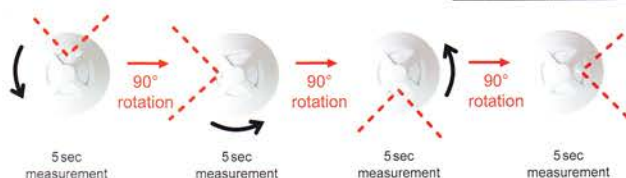


## The i-see Sensor temperature-sensing technology improves energy efficiency and enhances room comfort

The "i-see Sensor" is an innovative Mitsubishi Electric technology that uses a radiation-based sensor to monitor temperature throughout an entire room. When connected to the air conditioner control panel, the i-see Sensor works to maximize room comfort.

### i-see Sensor Operation

The i-see Sensor rotates 90° at intervals of 5sec, accurately measuring the temperature throughout the room (covering entire floor space).



## "Sensible temperature control" prevents excessive cooling through pioneering control technology

By measuring the inlet temperature and floor temperature, temperatures felt by the human body (sensible temperature) will be computed. This allows the proper sensible temperature to always be maintained through the suppression of excessive cooling.

(For simultaneous twin operation, please install the i-see Sensor corner panel on both indoor units.)

### The i-see Sensor automatically controls over-cooling by detecting the optimum temperatures.

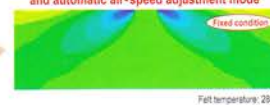
Example When you want the felt temperature to be 28°C.

Temperature set at 26 - 27°C, without the i-see Sensor

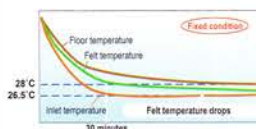


Felt temperature: 26.5°C

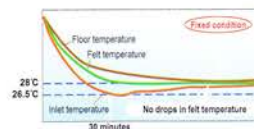
Temperature set at 28°C, with i-see Sensor and automatic air-speed adjustment mode



Felt temperature: 28°C



The felt temperature drops according to the drop in floor-level temperature. If the floor-level temperature is not monitored during long cooling operation, the felt temperature becomes chilly.



Air temperature is adjusted according to the floor temperature to keep the felt temperature at 28°C.



# PC-KAK SERIES

PC-3KAK PC-4KAK PC-5KAK PC-6KAK



Wireless remote controller (option)

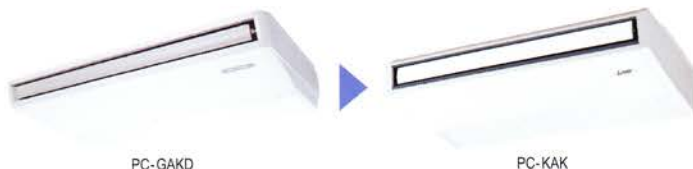
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## Stylish indoor unit design

A stylish square-like design is adopted for the indoor units of all models. As a result, the units blend in better with the ceiling.

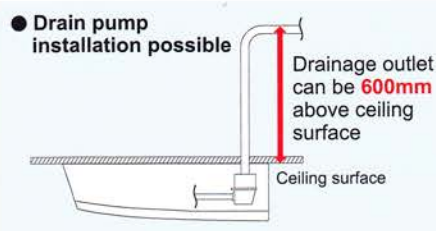


## Quiet operation

Smoother airflow, an improved air vent design, and a slimmer fan combine to provide exceptionally quiet operation – a mere 42dB on high and 34dB on low (PC-3KAK).

## Optional drain pump for full-capacity models

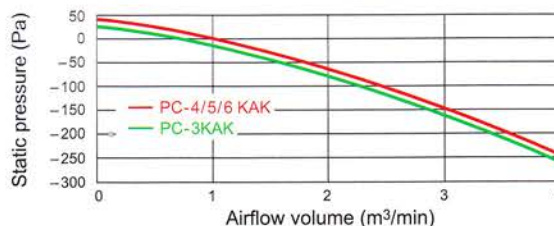
The pumping height of the optional drain pump has been increased from 400mm to 600mm, expanding flexibility in choosing unit location during installation work.



## Outside-air intake

Units are equipped with a knock-out hole that enables the induction of fresh outside-air.

### ● Outside-air intake characteristics



## Flockless vanes

With the adoption of flockless vanes, dirt and other impurities can be cleaned off easily with mild household detergent.

## Features at a glance

Installation & Maintenance	Comfort	Others
• Chargeless system	• Auto swing	• System control
• New direct suspension system	• Computerized dehumidifier	• Twin-multi operation
• Drain water lift-up (600mm)*1	• Quiet operation	• Auto restart
• Flexible piping		• Auto vane shutter
• Long-life filter (2500hrs)*2		• Outdoor unit max. operating temp. of 46°C
• High-efficiency filter*1		
• Self-diagnostic function		

\*1 Optional

\*2 May vary according to operating conditions.

# PE-EAK(2)/PED-AAK SERIES

PE-3EAK2 PE-4EAK PE-5EAK2  
PE-6EAK2 PED-5AAK



PE-3EAK2



PE-4EAK



PE-5EAK2  
PE-6EAK2



PED-5AAK



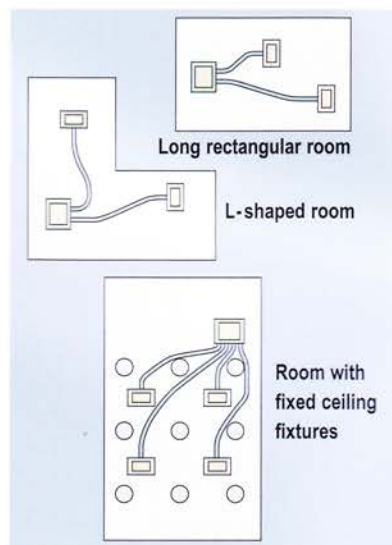
Wireless remote controller  
(option)

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## Flexible duct design

Offering all the benefits of split-type models plus other important advantages, the PE/PED Series is not only easy to install but also very versatile. For example, the distance between the air-intake and air-outlet vents can be varied to allow airflow to be positioned in the optimum location.



## Computerized dehumidification

The electronic dehumidifier mode — where fan speed is controlled precisely — increases dehumidification volume while improving dehumidifying efficiency.

## Quiet operation & compact unit PE-3EAK2

In the 3HP range, the PE-3EAK2 offers quiet operation and low unit height of 200mm, expanding application possibilities.



## Features at a glance

Installation & Maintenance	Comfort	Others
• Chargeless system	• Computerized dehumidifier	• System control
• Smooth installation	• Quiet operation	• Twin-multi operation
• Self-diagnostic function		• Auto restart
		• Outdoor unit max. operating temp. of 46°C (PU-3VAKD: 52°C)



# PK-FAKLD

## SERIES

PK-4FAKLD

Wired remote controller  
(option)

### INDEX

Specifications .....	p.16
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### Auto-flap shutter

When the unit is turned off, the shutter closes automatically over the air outlet to enhance the stylish design. The shutter also functions as a flap to adjust airflow angle and ensure that pleasant air reaches every corner of the room.



### LCD wireless remote controller

The wireless remote controller has a large easy-to-read temperature display, and controls the On/Off function and temperature settings with the press of a button.



### Enhanced noise suppression

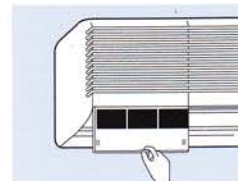
Low-noise operation has been achieved through the introduction of a "near-silent" fan and a design which minimizes airflow resistance.

### Multi-directional piping

To reduce installation time, drain piping can be connected from the left and right. Refrigerant piping can also be connected from the rear, left, right and base of the unit.

### Easily removable filter

Convenient thumbscrews on the filters enable the filters to be quickly removed for easier cleaning.



### Back plate installation guide

To save time and effort, the back plate installation guide provides clear instructions on installation positions. The enlarged back plate secures the unit firmly to the wall, while the support piece which lifts the unit makes the left-side piping work much easier.

### Drain lift-up mechanism (optional)

For greater installation flexibility, the drain water pipe lift-up mechanism has been raised 800mm from the base of the unit.

### Features at a glance

Installation & Maintenance	Comfort	Others
• Chargeless system	• Auto-angle airflow	• System control
• Easily removable filter	• Computerized dehumidifier	• Auto restart
• Drain water lift-up (800mm)*	• Quiet operation	• Outdoor unit max. operating temp. of 46°C
• 4-way multi-directional piping		
• Self-diagnostic function		

\*Optional

# PS-GAKD

## SERIES

PS-4GAKD PS-5GAKD PS-6GAKD



### INDEX

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### Streamlined, lightweight design

The PS Series has a streamlined design and takes up very little floor space. Adding to this appeal, the unit weight has been significantly reduced for easier handling.

### Whisper-quiet performance

To ensure extra comfort, the PS Series offers whisper-quiet operation thanks to a newly developed low-noise fan and improved air duct design.

### Less installation time; 4-way pipe directions

To reduce installation time, the piping connection position has been raised to simplify the arrangement of pipes. Piping can also be easily installed in four directions — rear, left, right and bottom.

### Long-life filter as standard equipment

Indoor units are equipped with a long-life filter that has a maximum service life of 2,500 hours\* (based on use under average office conditions). Filter cleaning is drastically reduced. Furthermore, the adoption of an "open-and-close grille" makes it easy to take the filter out to clean off dust and particulates.

*\*May vary according to operating conditions.*



### Flockless vanes

With the adoption of new flockless vanes, dirt and other impurities can be cleaned off easily with mild household detergent.



### Features at a glance

Installation & Maintenance	Comfort	Others
• Chargeless system	• Auto-louver	• System control
• Lightweight design	• Computerized dehumidifier	• Auto restart
• 4-way multi-directional piping	• Quiet operation	• Outdoor unit max. operating temp. of 46°C
• Easily removable filter		
• Long-life filter (2500hrs.)*		
• Self-diagnostic function		
• Flockless vanes		

*\*May vary according to operating conditions.*



# PL-BAK Ceiling-cassette

Models				PL-3BAK	PL-4BAK	PL-5BAK	PL-6BAK		
Cooling capacity	50Hz	W	7,900	9,800	10,300	13,100	15,000		
		BTU/h	27,000	33,400	35,100	44,700	51,200		
Total input (50Hz)		kW	2.97	3.76	3.68	4.42	5.44		
Indoor unit	Model name		PL-3BAK		PL-4BAK		PL-5BAK	PL-6BAK	
	External finish		Galvanized sheets						
	Fan motor output		kW	0.05	0.12				
	Airflow (low-mid2-mid1-high)	50Hz	CMM	14-16-18-20		20-22-25-28		22-24-27-30	24-26-29-32
			CFM	495-565-635-705		705-775-885-990		780-850-955-1060	850-920-1025-1130
	External static pressure		Pa (mmAq)	0 (direct blow)					
	Operation control & thermostat		Remote controlled & Built-in						
	Noise level (low-mid2-mid1-high)	50Hz	dB (A)	28-30-32-34		33-35-38-41		35-37-39-42	37-39-41-44
	Unit drain pipe I.D.		mm	32					
	Dimensions	W	mm	840					
		D	mm	840					
		H	mm	258	298				
	Weight		kg	23	25		27		
Indoor grille	External finish		Munsell 6.4Y 8.9/0.4						
	Dimensions	W	mm	950					
		D	mm	950					
		H	mm	35					
	Weight		kg	6					
Outdoor unit	Model name		PU-3VAKR2		PU-4VAKR	PU-4YAKD2	PU-5YAKD	PU-6YAKD	
	External finish		Munsell 3.0Y 7.8/1.1						
	Refrigerant (R22) control		Capillary tube						
	Compressor output	50Hz	kW	2.5	2.7		3.5	4.2	
	Protection devices		Internal thermostat		Internal thermostat, HP switch, LP switch	Internal thermostat, Thermal relay, Anti-phase protector	Thermal switch, HP switch, LP switch, Anti-phase protector, Thermal relay		
	Fan motor output		kW	0.075	0.065 + 0.065		0.10 + 0.10		
	Airflow	50Hz	CMM (CFM)	51 (1,800)		95 (3,350)		100 (3,530)	
	Noise level	50Hz	dB (A)	56	54		55	56	
	Dimensions	W	mm	840		870		970	
		D	mm	330		295		345	
		H	mm	880		1,258			
	Weight		kg	74	94	83	111	112	

\* Due to the compact high efficient design of heat exchanger, the use of ceiling cassette units are not recommended for hair saloon environment. Please contact our Dealers for recommendations of appropriate models.

# PC-KAK Ceiling-suspended

Models			PC-3KAK	PC-4KAK	PC-5KAK	PC-6KAK		
Cooling capacity	50Hz	W	7,700	9,550	10,300	12,800		
		BTU/h	26,300	32,600	35,200	43,700		
Total input (50Hz)		kW	3.05	3.82	3.58	5.32		
Indoor unit	Model name		PC-3KAK	PC-4KAK	PC-5KAK	PC-6KAK		
	External finish		Munsell 6.4Y 8.9/0.4					
	Fan motor output		kW	0.095	0.160			
	Airflow (low-high)	50Hz	CMM	16-22	24-30	25-32	27-34	
			CFM	565-775	850-1,060	885-1,130	955-1,200	
	External static pressure		Pa (mmAq)	0 (direct blow)				
	Operation control & thermostat		Remote controller & Built-in					
	Noise level (low-high)	50Hz	dB (A)	34-42	39-45	40-46	42-48	
	Unit drain pipe I.D.		mm	26				
	Dimensions	W	mm	1,280	1,600			
		D	mm	680				
		H	mm	230				
	Weight		kg	32	36	38	39	
Outdoor unit	Model name		PU-3VAKR2	PU-4VAKR	PU-4YAKD2	PU-5YAKD	PU-6YAKD	
	External finish		Munsell 3.0Y 7.8/1.1					
	Refrigerant (R22) control		Capillary tube					
	Compressor output	50Hz	kW	2.5	2.7	3.5	4.2	
	Protection devices		Internal thermostat	Internal thermostat, HP switch, LP switch,	Internal thermostat, Thermal relay, Anti-phase protector	Thermal switch, HP switch, LP switch, Anti-phase protector, Thermal relay		
	Fan motor output		kW	0.075	0.065 + 0.065	0.10 + 0.10		
	Airflow	50Hz	CMM (CFM)	51 (1,800)	95 (3,354)	95 (3,350)	100 (3,530)	
	Noise level	50Hz	dB (A)	56	54	55	56	
	Dimensions	W	mm	840	870	970		
		D	mm	330	295	345		
		H	mm	880	1,258			
	Weight		kg	74	94	83	111	112

# PE-EAK(2) Ceiling-concealed

Models			PE-3EAK2	PE-4EAK	PE-5EAK2	PE-6EAK2	
Cooling capacity	50Hz	W	7,300	9,800	12,100	14,000	
		BTU/h	24,900	33,400	41,000	48,000	
Total input (50Hz)		kW	3.39	(V) 3.85, (Y) 3.74	5.00	5.98	
Indoor unit	Model name		PE-3EAK2	PE-4EAK	PE-5EAK2	PE-6EAK2	
	External finish		Galvanized sheets				
	Fan motor output		kW	0.096	0.26	0.46	
	Airflow (low-high)	50Hz	CMM	12-21	27-34	40-50	
			CFM	424-741	953-1,200	1,412-1,765	
	External static pressure		Pa (mmAq)	50 (5)	63.5 (6.35) at Hi-notch	100 (10) at Hi-notch	
	Operation control & thermostat		Remote controlled & Built-in				
	Noise level (low-high)		50Hz	dB (A)	32-42	54-58	45-49 <sup>1)</sup> (52-59 <sup>2)</sup> )
	Unit drain pipe thread		mm	R1			
	Dimensions	W	mm	1,190	1,055	1,180	
		D	mm	700	690	634	
		H	mm	200	428	400	
	Weight		kg	27	58	56	
Outdoor unit	Model name		PU-3YAKD	PU-4YAKR/YAKD2	PU-5YAKD	PU-6YAKD	
	External finish		Munsell 3.0Y 7.8/1.1				
	Refrigerant (R22) control		Capillary tube				
	Compressor output	50Hz	kW	2.5	2.7	3.5	4.2
	Protection devices		Internal thermostat	(V, Y): Internal thermostat, (Y): Thermal relay, Anti-phase protector	Thermal switch, HP switch, LP switch, Anti-phase protector, Thermal relay		
	Fan motor output		kW	0.075	0.065 + 0.065	0.10 + 0.10	
	Airflow	50Hz	CMM (CFM)	49 (1,730)	95 (3,350)	100 (3,530)	
	Noise level	50Hz	dB (A)	53	54	55	56
	Dimensions	W	mm	840	870	970	
		D	mm	330	295	345	
		H	mm	850	1,258		
	Weight		kg	69	94 / 83	111	112

\* 1 Measured at 1.5m beneath the unit connected with 2m long outlet duct and 1m long inlet duct

\* 2 Measured at 2m forward and 1m beneath the foreside of the unit connected with 1m long outlet and inlet duct

# PED-AAK Ceiling-concealed

Models				PED-5AAK		
Cooling capacity		50Hz	W	12,400		
			BTU/h	42,300		
Total input (50Hz)			kW	4.39		
Indoor unit	Model name			PED-5AAK		
	External finish			Galvanized sheets		
	Fan motor output		kW	0.10 + 0.14		
	Airflow (low-high)	50Hz	CMM	27-34		
			CFM	955-1,202		
	External static pressure		Pa (mmAq)	50/95		
	Operation control & thermostat			Remote controlled & Built-in		
	Noise level (low-high)		50Hz	dB (A)	40-44	
	Unit drain pipe thread			mm	R1	
	Dimensions	W		mm	1,721	
		D		mm	740	
		H		mm	270	
Weight			kg	63		
Outdoor unit	Model name			PU-5YAKD		
	External finish			Munsell 3.0Y 7.8/1.1		
	Refrigerant (R22) control			Capillary tube		
	Compressor output		50Hz	kW	3.5	
	Protection devices			Thermal switch, HP switch, LP switch, Anti-phase protector, Thermal relay		
	Fan motor output			kW	0.10 + 0.10	
	Airflow	50Hz	CMM (CFM)	100 (3,530)		
	Noise level		50Hz	dB (A)	55	
	Dimensions	W		mm	970	
		D		mm	345	
		H		mm	1,258	
	Weight			kg	111	



# PK-FAKLD Wall-mounted

Models				PK-4FAKLD	
Cooling capacity		50Hz	W	9,400	10,100
			BTU/h	32,100	34,500
Total input (50Hz)			kW	3.73	3.54
Indoor unit	Model name			PK-4FAKLD	
	External finish			Munsell 3.4Y 7.7/0.8 (white)	
	Fan motor output		kW	0.07	
	Airflow (low-high)	50Hz	CMM	22-28	
			CFM	777-989	
	External static pressure		Pa (mmAq)	0 (direct blow)	
	Operation control & thermostat			Wireless remote controller & Built-in	
	Noise level (low-high)	50Hz	dB (A)	41-46	
	Unit drain pipe O.D.		mm	20	
	Dimensions	W	mm	1,680	
		D	mm	235	
		H	mm	340	
	Weight		kg	28	
Outdoor unit	Model name			PU-4VAKR	PU-4YAKD2
	External finish			Munsell 3.0Y 7.8/1.1	
	Refrigerant (R22) control			Capillary tube	
	Compressor output	50Hz	kW	2.7	
	Protection devices			Internal thermostat, HP switch, LP switch	Internal thermostat, Thermal relay, Anti-phase protector
	Fan motor output		kW	0.065 + 0.065	0.065 + 0.065
	Airflow	50Hz	CMM (CFM)	95 (3,354)	95 (3,350)
	Noise level	50Hz	dB (A)	54	
	Dimensions	W	mm	870	
		D	mm	295	
		H	mm	1,258	
	Weight		kg	94	83

# PS-GAKD Floor-standing

Models				PS-4GAKD	PS-5GAKD	PS-6GAKD
Cooling capacity	50Hz	W		9,800	12,400	14,800
		BTU/h		33,400	42,300	50,500
Total input (50Hz)		kW		3.67	4.41	5.47
Indoor unit	Model name			PS-4GAKD	PS-5GAKD	PS-6GAKD
	External finish			Munsell 0.70Y 8.59/0.97		
	Fan motor output		kW	0.07	0.11	0.12
	Airflow (low-high)	50Hz	CMM	22-28	23-31	25-32
			CFM	776-988	812-1,094	882-1,130
	External static pressure		Pa (mmAq)	0 (direct blow)		
	Operation control & thermostat			Built-in		
	Noise level (low-high)	50Hz	dB (A)	42-47	43-49	45-50
	Unit drain pipe O.D.		mm	20		
	Dimensions	W	mm	600		
		D	mm	350		
		H	mm	1,900		
	Weight		kg	51		53
Outdoor unit	Model name			PU-4YAKD2	PU-5YAKD	PU-6YAKD
	External finish			Munsell 3.0Y 7.8/1.1		
	Refrigerant (R22) control			Capillary tube		
	Compressor output	50Hz	kW	2.7	3.5	4.2
	Protection devices			Internal thermostat, Thermal relay, Anti-phase protector	Thermal switch, HP switch, LP switch, Anti-phase protector, Thermal relay	
	Fan motor output		kW	0.065 + 0.065	0.10 + 0.10	
	Airflow	50Hz	CMM (CFM)	95 (3,350)	100 (3,530)	
	Noise level	50Hz	dB (A)	54	55	56
	Dimensions	W	mm	870	970	
		D	mm	295	345	
		H	mm	1,258		
	Weight		kg	83	111	112

## GENERAL SPECIFICATIONS FOR ALL MODELS

### ■ Notes for All Specifications

Rating conditions  
 Indoor: 27°C DB, 19°C WB  
 Outdoor: 35°C DB  
 Refrigerant piping length (one-way): 5m (PU-3/4VAKR(2): 7.5m)  
 Total input based on indicated voltage (indoor/outdoor)

### ■ Power Supply

Models	PU-3VAKD PU-3VAKR2 PU-4VAKR	PU-4YAKD2 PU-5YAKD PU-6YAKD
50 Hz	1ph. 230V / 1ph. 230V	1ph. 230V / 3ph. 400V

### ■ Guaranteed Operating Range [Cooling]

Limits	Indoor	Outdoor
Lower	21°C DB, 15.5°C WB	21°C DB
Upper	35°C DB, 22.5°C WB	46°C DB (52°C DB. PU-3VAKD)

### ■ Refrigerant Piping Length

Models	Between indoor & outdoor units		Pipe size O.D. mm
	Max. height difference m	Max. piping length m	
PU-3VAKD	15	30	Liquid: Ø 9.52 Gas: Ø 15.88
PU-3VAKR2	20	30	
PU-4	30	40	Liquid: Ø 9.52 Gas: Ø 19.05
PU-5, 6	50	50	

### ■ Additional Refrigerant Charge [R22: kg]

Models	Piping length (one-way)									
	7m	10m	15m	20m	25m	30m	35m	40m	45m	50m
PU-3VAKD	0	0.075	0.20	0.325	0.45	0.575	—	—	—	—
PU-3VAKR2	0	0.09	0.24	0.39	0.54	0.69	—	—	—	—
PU-4VAKR	0	0	0	0	0.15	0.30	0.45	0.60	—	—
PU-4YAKD2	0	0.10	0.25	0.40	0.55	0.70	0.85	1.00	—	—
PU-5	0	0	0	0	0.15	0.30	0.45	0.60	0.75	0.9
PU-6	0	0	0	0	0.15	0.30	0.45	0.60	0.75	0.9

Notes: 1. No additional refrigerant charging necessary for up to 7 metres.(PU-3/4Y)  
 2. No additional refrigerant charging necessary for up to 20 metres.(PU-4V/5/6)

### ■ Main Optional Parts

Models	Description	Applicable models
MAC-397IF-E	MA & Control Terminal Interface	All indoor units
PAC-SE55RA-E	Timer Adapter	All indoor units
PAC-725AD	Multiple Remote Controller Adapter (10 sets)	All indoor units
PAC-SE41TS-E	Remote Sensor	All indoor units
PAC-SA46DS-E	Drain Socket	PU-4
PAC-SA47DS-E	Drain Socket	PU-5/6
PAC-292SG	Air Outlet Guide	PU-4/5/6
PAC-SH84DM-E	Drain Lift-Up Mechanism	PC-3KAK
PAC-SH86DM-E	Drain Lift-Up Mechanism	PC-4/5/6KAK
PAC-KE07DM-E	Drain Lift-Up Mechanism	PE-3EAK2
PAC-SE90DM-E	Drain Lift-Up Mechanism	PK-FAKLD
SDD-50S-E	Distribution Pipe for Twin Use	PU-6

Models	Description	Applicable models
PAC-SH48AS-E	Space Panel	PL-BAK
PAC-SH53TM-E	Multi-Function Casement	PL-BAK
PAC-SA1ME-E	Corner Panel with i-see Sensor	PL-BAK
PAC-SH62HK-E	Insulation for High-humidity Condition	PL-BAK
PAC-SH65OF-E	Duct Flange for Fresh Air Intake	PL-BAK
PAC-SH89KF-E	High-Efficiency Filter	PC-3/4KAK
PAC-SH90KF-E	High-Efficiency Filter	PC-4/5/6KAK
PAR-SL94B-E	Wireless Remote Controller / Signal Receiver Unit	PC-KAK
PAR-SA9CA-E	Signal Receiver Unit	PE-EAK(2), PED-AAK
PAR-SL97A-E	Wireless Remote Controller	PE-EAK(2), PED-AAK, PL-BAK
PAR-21MAA	Wired Remote Controller	All indoor models

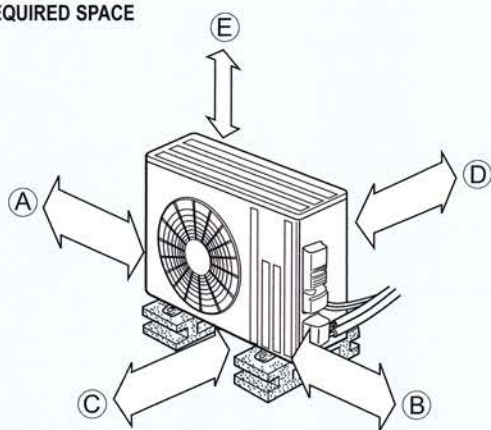


## ■ Outdoor Unit Installation Location

### • When installing a single outdoor unit:

#### A. PU-3VAKD, PU-3VAKR2

##### REQUIRED SPACE



Ⓐ 100mm or more

Ⓑ 360mm or more

Ⓒ 500mm or more

Ⓓ 100mm or more

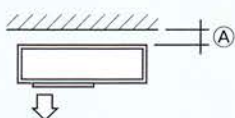
Ⓔ 500mm or more

When the piping is to be attached to a wall containing metals (tin plated) or metal netting, use a chemically treated wooden piece 20mm or thicker between the wall and the piping or wrap 7 to 8 turns of insulation vinyl tape around the piping.

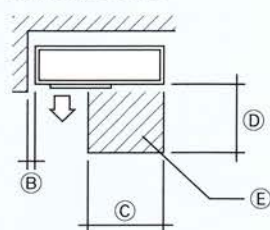
Units should be installed by licensed contractor accordingly to local code requirements.

#### B. PU-4VAKR, PU-4YAKD2, PU-5/6YAKD

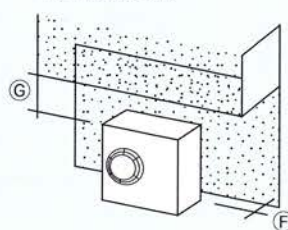
##### Obstruction at rear only



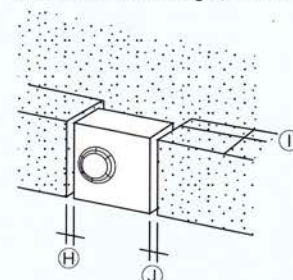
##### Maintenance space



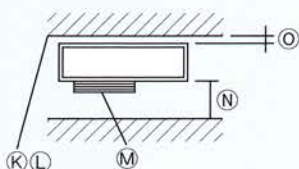
##### Top obstruction



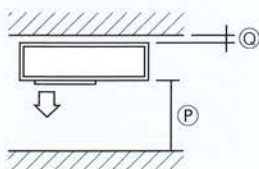
##### Obstructions at the right, left and rear



##### Obstructions at the front and rear only



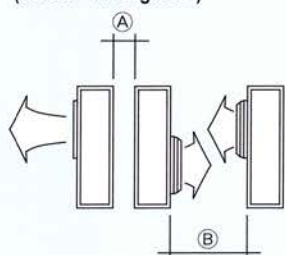
##### Obstructions at the front and rear only



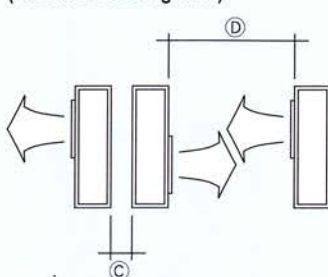
Ⓐ	150mm or more	Ⓜ	Air outlet guide
Ⓑ	10mm or more	Ⓝ	500mm or more
Ⓒ	500mm or more	Ⓞ	150mm or more
Ⓓ	500mm or more	Ⓟ	3800mm or more
Ⓔ	Maintenance space	Ⓠ	150mm or more
Ⓛ	150mm or more		
Ⓜ	10mm or more		
Ⓝ	500mm or more		
Ⓞ	150mm or more		
Ⓟ	3800mm or more		
Ⓠ	150mm or more		

### • When installing multiple outdoor units:

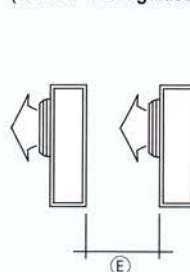
#### Face-to-face arrangement (with air outlet guides)



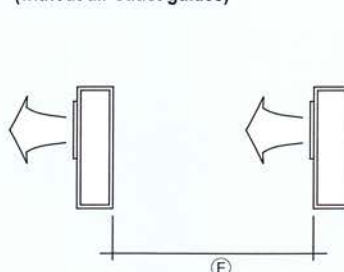
#### Face-to-face arrangement (without air outlet guides)



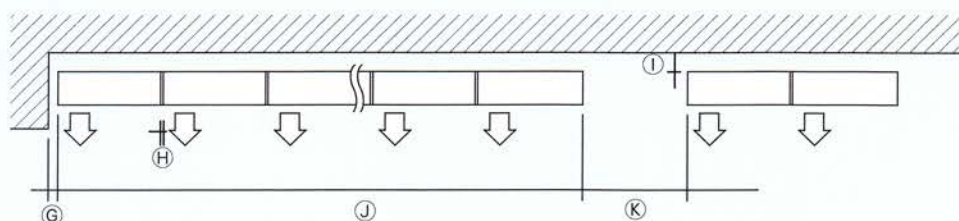
#### Parallel arrangement (with air outlet guides)



#### Parallel arrangement (without air outlet guides)



#### Side-by-side arrangement \*The upper side must be open.



Ⓐ	300mm or more
Ⓑ	500mm or more
Ⓒ	300mm or more
Ⓓ	1500mm or more
Ⓔ	1500mm or more
Ⓛ	2500mm or more
Ⓜ	150mm or more
Ⓝ	10mm or more
Ⓞ	300mm or more
Ⓟ	Up to 10 units (When the optional air outlet guides are used, no more than five units should be arranged side by side.)
Ⓠ	1000mm or more

**⚠ NOTICE**

- Do not install indoor units in areas (e.g., mobile phone base stations) where the emission of VOCs such as phthalate compounds and formaldehyde is known to be high, as this may result in a chemical reaction.
- When installing, relocating or servicing the air conditioners, use only the specified refrigerant to charge the refrigerant lines. Do not mix the specified refrigerant with any other refrigerant and do not allow air to remain in the lines. If air is mixed with the refrigerant, then it can be the cause of abnormal high pressure in the refrigerant lines, and may result in an explosion and other hazards.  
The use of a refrigerant other than the one specified for the system will cause mechanical failure, system malfunction or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.



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